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Fig. 1

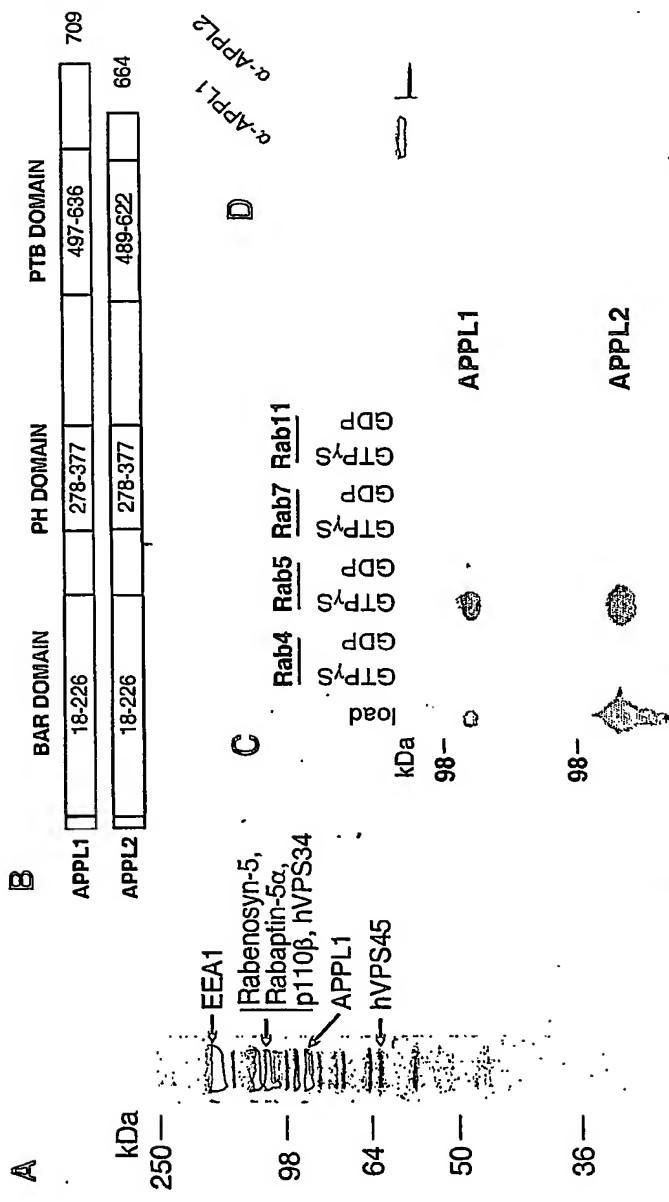


Fig. 2

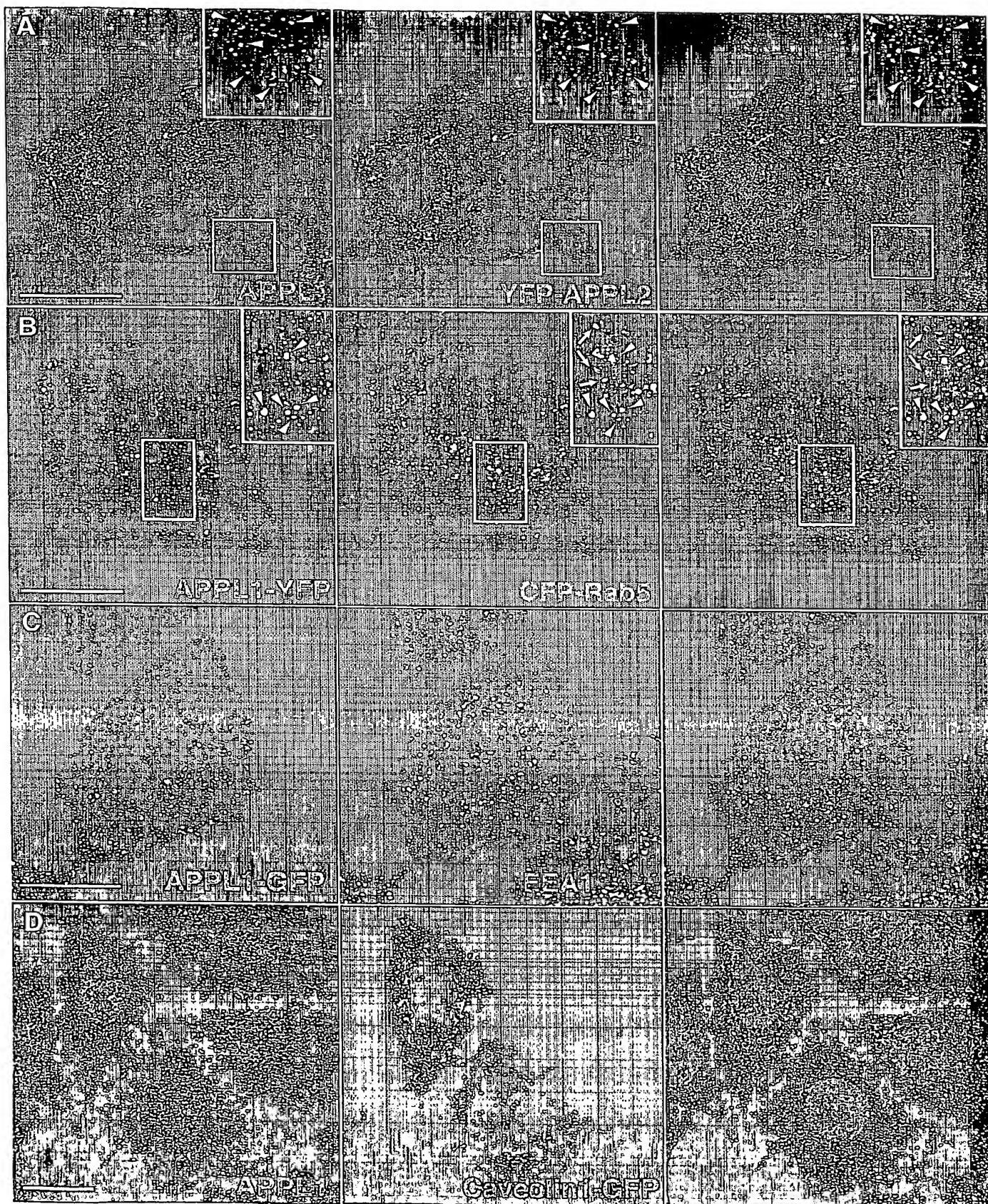


Fig. 3

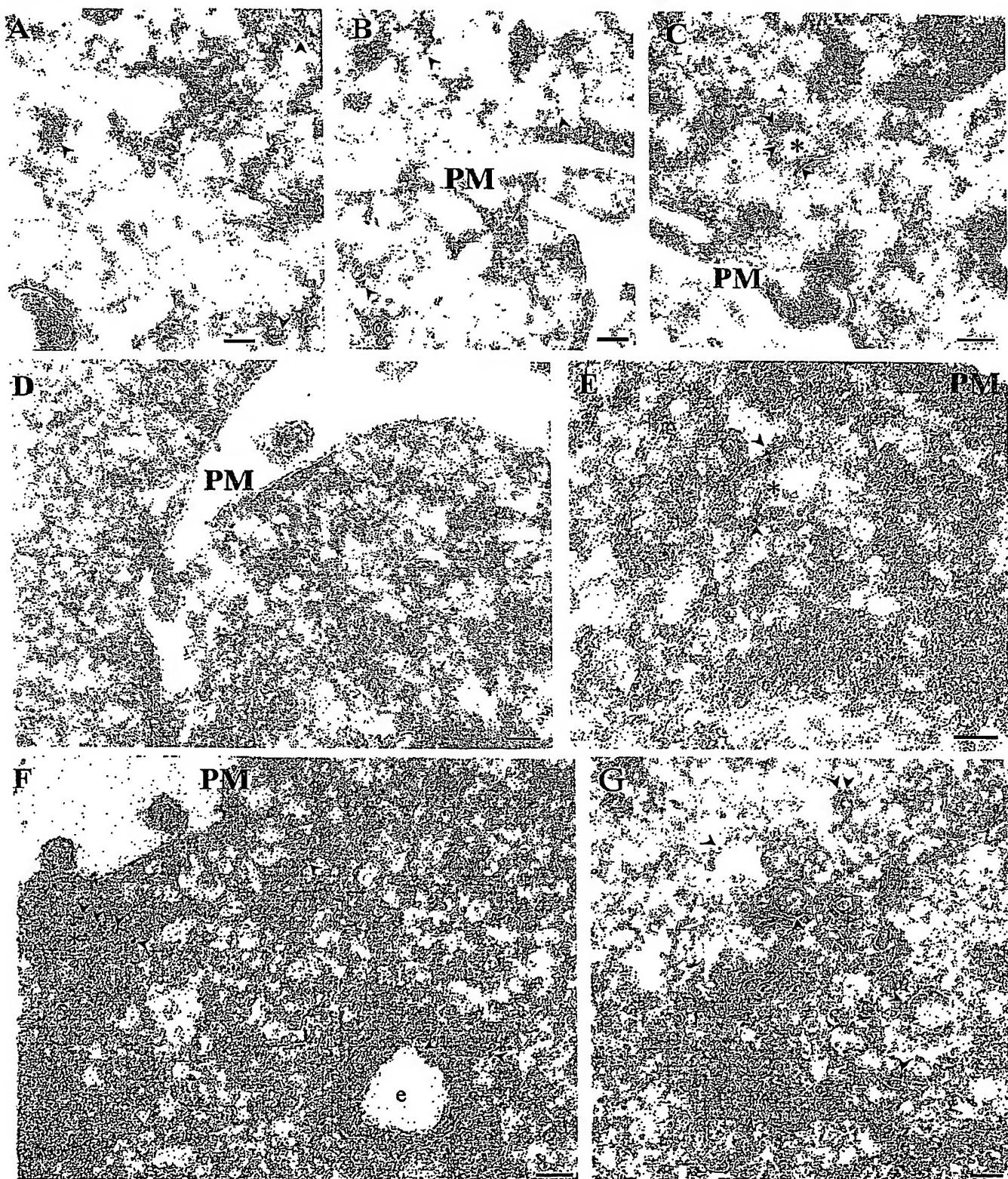


Fig. 4.



Fig. 5

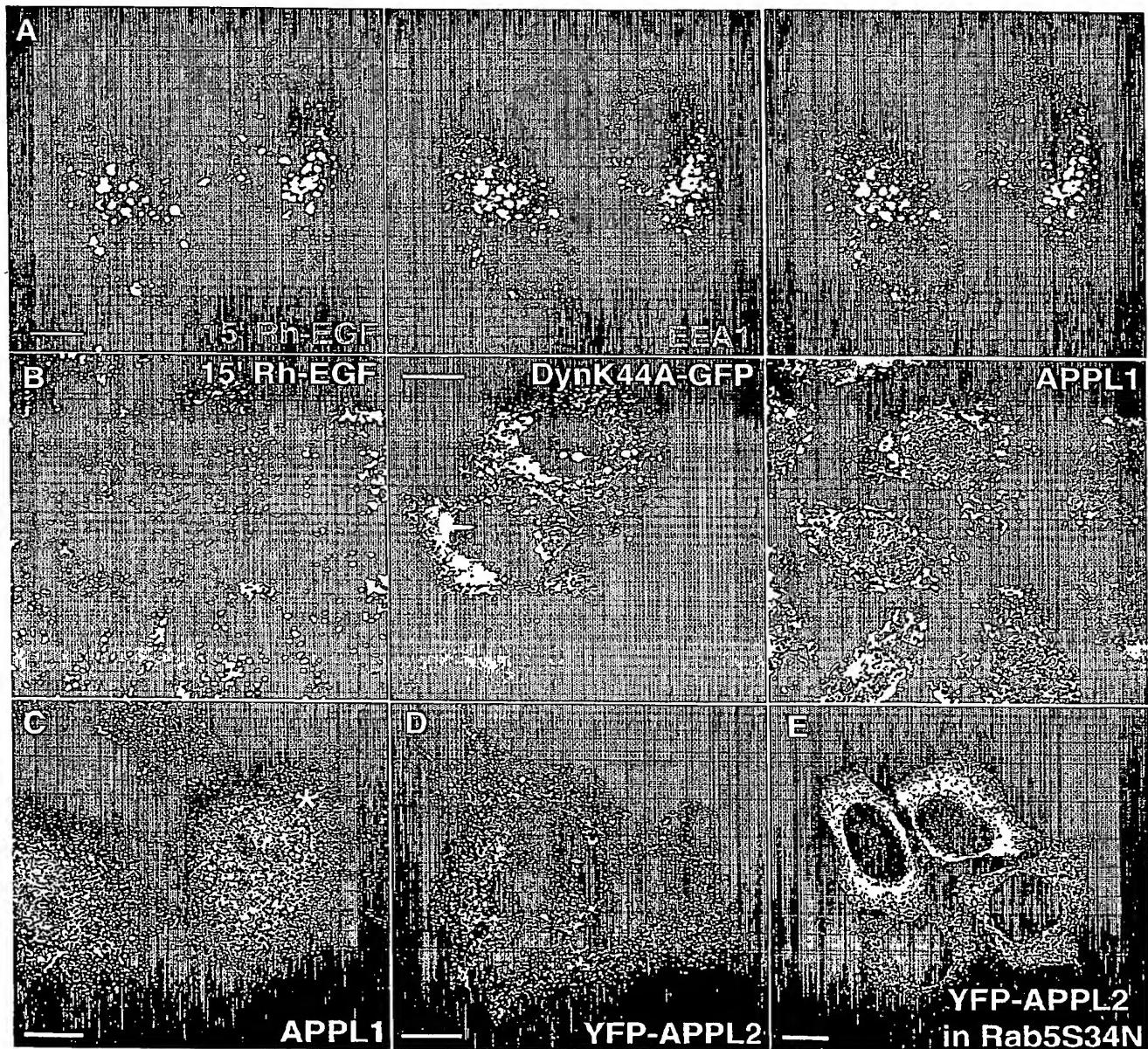


Fig. 6

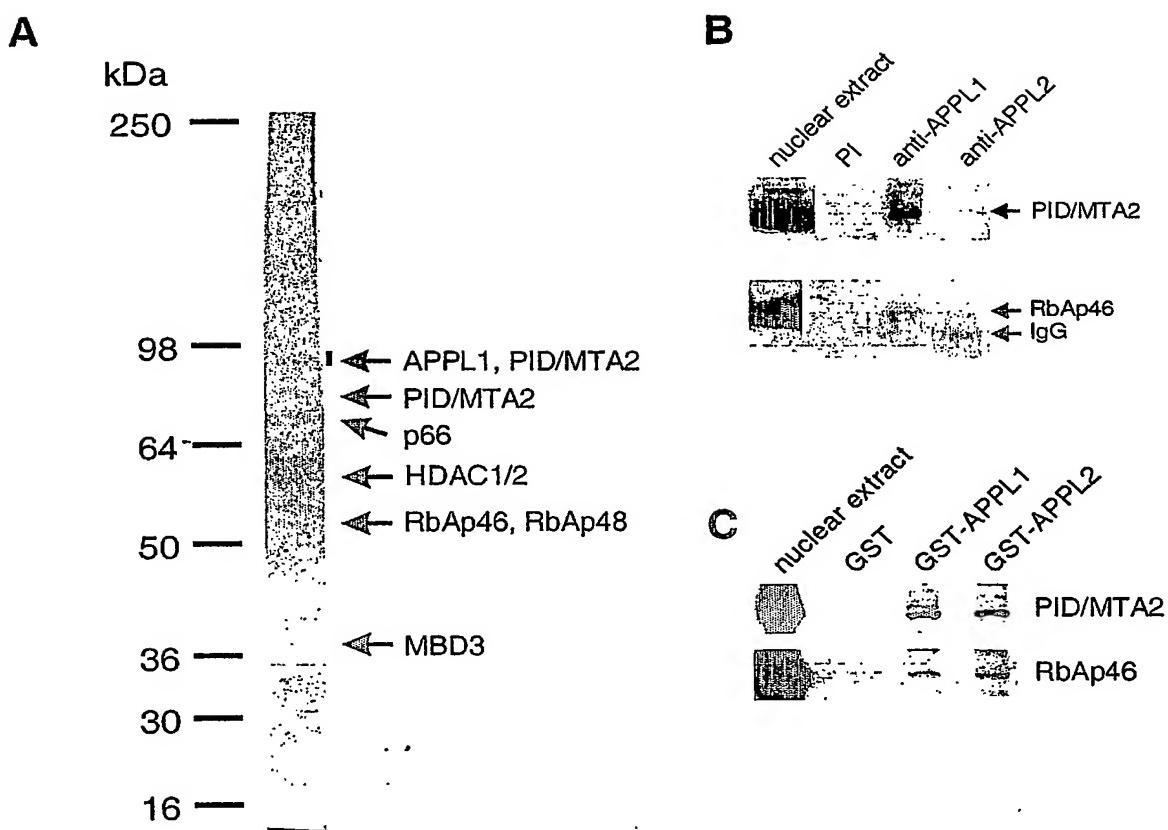
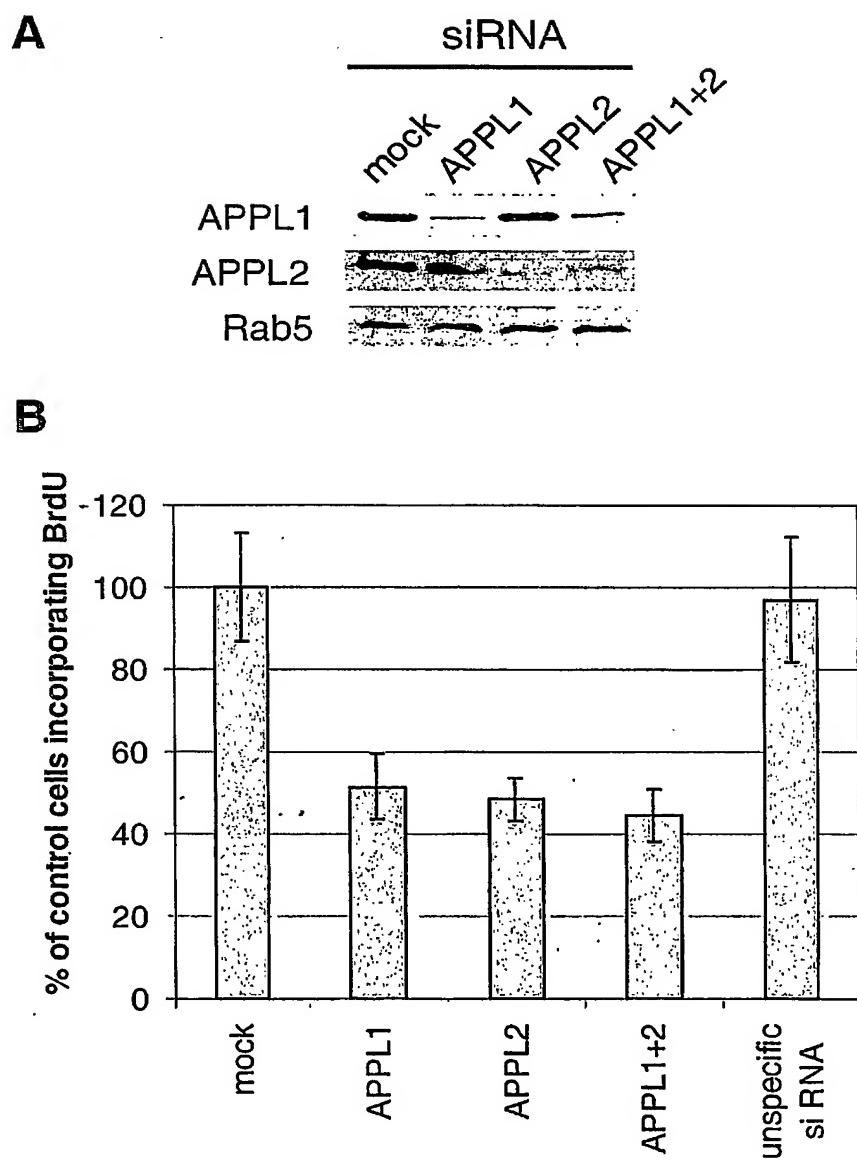


Fig. 7



	Rab5 binding	localization	% of BrdU incorporation
APP18-226	+	V	100
APP18-377	+	V	100
APP497-636	+	V	100
APP532-709	+	V	100
APP429-709	+	V, C	100
APP320-709	-	C, N	0 (cell death)
APPΔ1-272	-	C	0
APPΔ1-491	-	C, N	30-40
APP273-384	-	C, N	20
APP273-531	-	C, N	30-40

Fig. 8

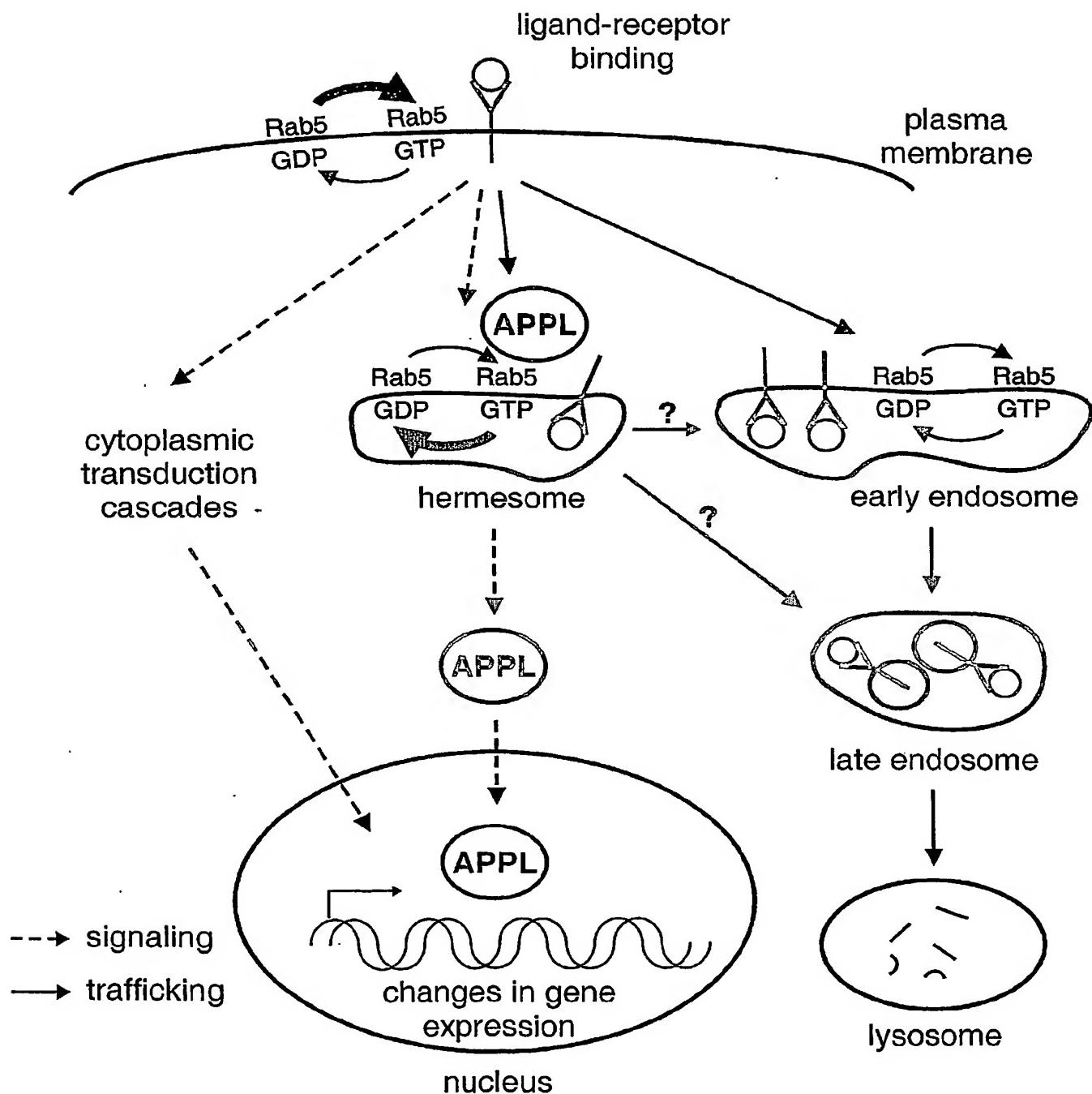


Fig. 9

HsArfaptin2 ARGIAEKPFDIVKKKGINITYKCTKOLLSERFCGRGSRIVDLEBLEQIELLRETTRKRYESVQLQLGRAI 185
 MmArfaptin2 AHLYSSLLOTOHALGDAFAISQKSPELQEFEFG
 HsArfaptin1A ARGIAEKPFDIVKKKGINITYKCTKOLLSERFCGRGSRIVDLEBLEQIELLRETTRKRYESVQLQLGRAI AHLYSSLLOTOHALGDAFAISQKSPELQEFEFG
 XLArfaptin1 IKNPAMEKLELVKWSLNIVYKCTKOLLSEKLGKGSRIVDLEBLEQIELLRETTRKRYESVQLQLGRAI AHLYSSLLOTOHALGDAFAISQKSPELQEFEFG
 DmArfaptin PRSTAVEKLELVVRSLSNIVYKCTKOLLSEKLGKGSRIVDLEBLEQIELLRETTRKRYESVQLQLGRAI AHLYSSLLOTOHALGDAFAISQKSPELQEFEFG
 CeArfaptin A IRTSASKIDSLSKNSISITVKTRGIMLEKLKGKSORIVDSELEAQIEQPRTRQRLSLSTERLTRAPESHFQHVWVQHALADLPAQKNPFLQKSF
 CeArfaptin A DTAQVAAKVESPKKTTIGIFPKNSXCOLLEHMGHIDKIVDPEFEAQCEVLKOTHRRYGLVVAAKNFSHVLTQMAEAKKLSESVOLSMKKEEQIKAQCT

 HsAPPL-bar QTRSLCVPSEDDATAISNYMNQYQAMHRITVDQNELSAATH 99
 MmAPPL-bar QTRSLLGVPFEEDATAISNYMNQYQAMHRITVDQNELSAATH
 XLdip13A QTRSLLGVPFEEDATAISNYMNQYQAMHRITVDQNELSAATH
 HsDip13B QTRSLLGVPFEEDATAISNYMNQYQAMHRITVDQNELSAATH
 MmDip13B QTRSLLGVPFEEDATAISNYMNQYQAMHRITVDQNELSAATH

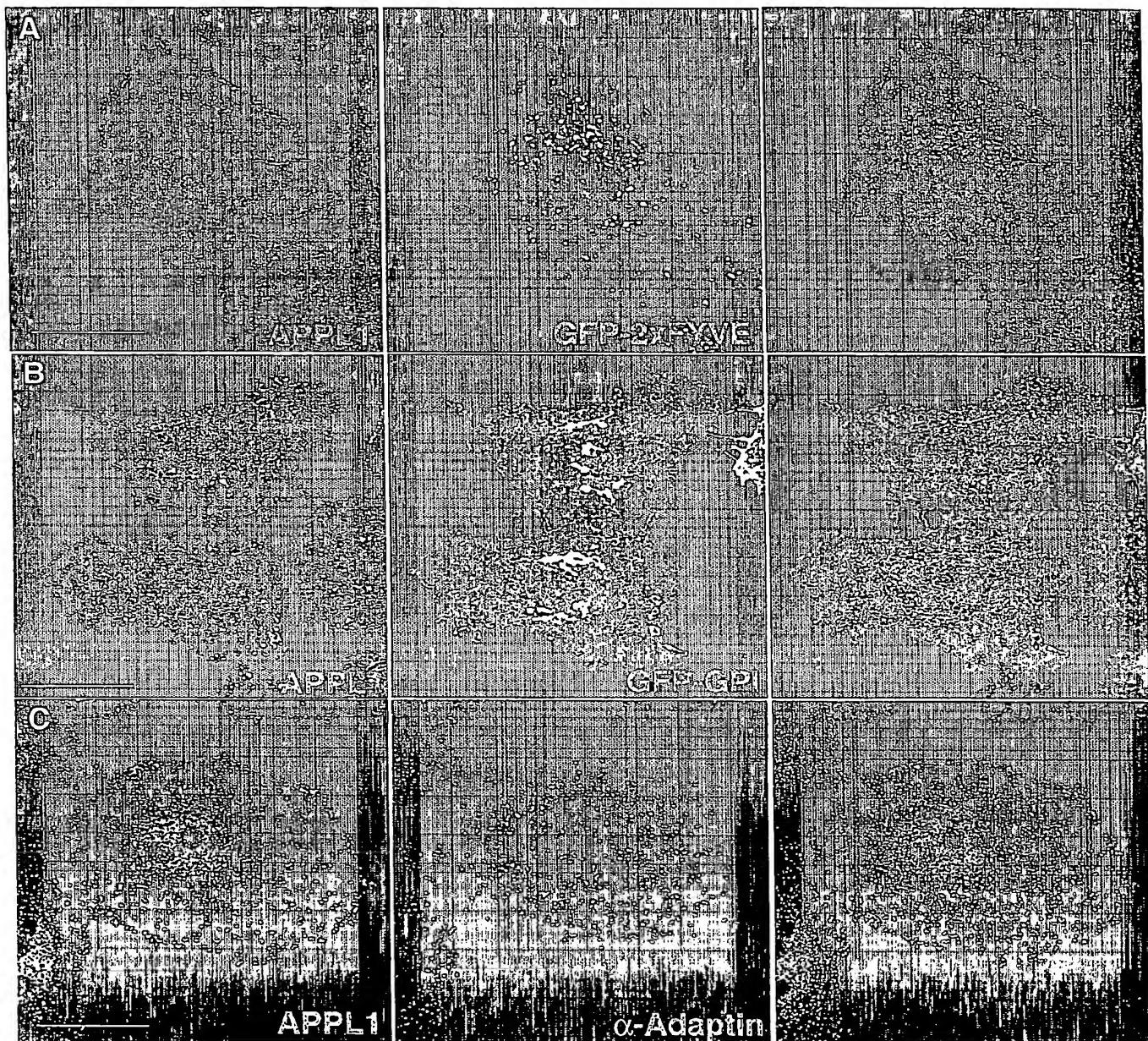
 HsArfaptin2 QARSLLSVFEEDACTLTDYTNOILQAMQRVYGAQNEMLATQQ 285
 MmArfaptin2 LSKROLLAYEKONFALGKGDEEVISTHLYFSKVYDELNLHHT
 HsArfaptin1A LSKROLLAYEKONFALGKGDEEVISTHLYFSKVYDELNLHHT
 XLArfaptin1 YNAETORLICKNGETLLGAVNPFVSSINTIVTKIMEDILMTVKQ-YEAARLEYDAYTDLLEELSLGERDAGITRGRESAATQFAHRDKYERLRCGVAAI
 DmArfaptin YNAETORLICKNGETLLGAVNPFVSSINTIVTKIMEDILMTVKQ-YEAARLEYDAYTDLLEELSLGERDAGITRGRESAATQFAHRDKYERLRCGVAAI
 CeArfaptin YNAETORLICKNGETLLGAVNPFVSSINTIVTKIMEDILMTVKQ-YEAARLEYDAYTDLLEELSLGERDAGITRGRESAATQFAHRDKYERLRCGVAAI

 HsAPPL-bar CHAVI1STOLADAMMPPITQFK 186
 MmAPPL-bar CHAVI1STOLADAMMPPISOFK
 XLdip13A CQAI1STOLADAMMPSICQFK
 HsDip13B ELAKQQLADTMVLPITQFR
 MmDip13B ELAKQQLADTMVLPITQFR

 HsArfaptin2 KIKFQEENKIKVMHKQLLLPHNAVSAYFAGNOKQLEQTLQQFN1KLRPPGAEPSPNLEEQ 345
 MmArfaptin2 KIKFQEENKIKVMHKQLLLPHNAVSAYFAGNOKQLEQTLQQFN1KLRPPGAEPSPNLEEQ
 HsArfaptin1A KIKFQEENKIKVMHKQLLLPHNAVSAYFAGNOKQLEQTLQQFN1KLRPPGAEPSPNLEEQ
 XLArfaptin1 KIKFQEENKIKVMHKQLLLPHNAVSAYFAGNOKQLEQTLQQFN1KLRPPGAEPSPNLEEQ
 DmArfaptin KNOFLDENRIKVMHKQLLLPHNAVSAYFAGNOKQLEQTLQQFN1KLRPPGAEPSPNLEQ
 CeArfaptin A XNRLLEENRISVVAQOLEKLOSALABYXSGNAKLEASVRELSFLQSPQPSFIPM

 HsAPPL-bar LNTLQYKKKIALLEPLLGYMQAQISFFKMGSE-NLNLQEEFL 229
 MmAPPL-bar LNTLQYKKKIALLEPLLGYMQAQISFFKMGSE-NLNLQEEFL
 XLdip13A LNTI1QYKKKIALLEPLLGYMQAQISFFKMGSE-NLNSQLEEF
 HsDip13B LNALQYRKQANMMEPMLFGAHCOTNPFKKGAE-MPSKRMDSFL
 MmDip13B LNALQYRKQANMMEPMLFGAHCOTNPFKKGAE-MPSKRMDSFL

Fig. 10



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